

EFROS, M.M.; EYKHE, N.G.

Gas cupola furnace of the All-Union Scientific Research
Institute for Fuel and the results of its investigation.
Trudy VNIIT no.12:141-155 '63. (MIRA 18:11)

NIKOLAYEV, A.V.; STAROSTINA, L.I.; EYKHE, S.N.

Solubility of some calcium and magnesium salts in the presence
of complexons. Izv. Sib. otd. AN SSSR no.9:52-57 '61.
(MIRA 14:10)

1. Institut neorganicheskoy khimii Sibirskogo otdeleniya AN
SSSR, Novosibirsk.

(Calcium salts)
(Magnesium salts)
(Acetic acid)
(Solubility)

SSORIN, Vladimir Aleksandrovich; NYKHEL' BERGER, Rudol'f Adol'fovich;
PEREPECHIN, B.M., redaktor; SHAKOVA, L.I., redaktor izdatel'stva;
KARASIK, N.P., tekhnicheskiy redaktor

[Cuttings in fir forests of Transcaucasia; experience in organization
and planning] Rubki v pikhtovykh lesakh Zakavkaz'ia; opyt obosnova-
niia i proektirovaniia. Moskva, Goslesbumizdat, 1956. 79 p. (MLRA 9:11)
(Transcaucasia--Lumbering)

EYKHENBAUM, YE.

COUNTRY	:	USSR	M
CATEGORY	:	Cultivated Plants. Cereals.	
REF. NO.:	:	PZhBiol., No.14, 1956, No. 63376	
AUTH.:	:	Eichenbaum, E.	
INST.	:	Estonian Scientific Research Institute of Agriculture and*	
TITLE	:	On the Results of Work on the Selection of Buckwheat at Jõgeva Selection Station.	
ORIG. PUB.:	:	Teaduslik-tehn. inform. bülj. Eesti Maataljeluse ja Maa-paranduse Teadusliku Ühinguust., 1957, No. 1, 13-13	
ABSTRACT:	:	In 1955, Valik buckwheat variety was obtained with the method of repeated mass selection from the local variety. The variety is resistant to lodging, productive (14 c/ha) and has large kernels (absolute weight - 200 g). The best results were obtained with drill sowing. The grain ripens 3-5 days earlier than with wide row planting. Top dressing with microelements increases the yield of the grain, the absolute yield of proteins from 1 ha, the absolute weight of the kernels and lowers the percentage of husk. — A. F. Khlyatova	
Card:	1/1	*Improvement	

EYKHENBERG, E.I., brigadir

Economic accountability has been introduced to our crew.
Transp. stroi. 12 no.5:8 My '62. (MIRA 15:6)

1. Stroitel'nyy uchastok No.213 tresta Kazanskogo
transportnogo stroitel'stva.
(Kazakhstan--Construction industry)

BYKHENVAL'D, Aleksandr Aleksandrovich; MLODZEYEVSKIY, A.B., professor,
redaktor; GRIGOROVA, V.A., redaktor; RYDNIK, V.I., redaktor;
MURASHOVA, N.Ya., tekhnicheskiy redaktor

[Selected works] Izbrannye raboty. Pod red. i s primechaniami A.B.
Mlodzeevskogo. Moskva, Gos. izd-vo tekhniko-teoret. lit-ry, 1956
266 p. (MIRA 9:12)
(Electricity)

22 YA 1000 3 17 V
MAL'TSEV, B.G.; GROMOV, N.N., kandidat ekonomicheskikh nauk, retsenzent;
MORIN, L.A., inzhener, retsenzent; EIKHENVAL'D, A.V., kandidat
ekonomicheskikh nauk, redaktor; MATVEYEVA, Ye.N., tekhnicheskiy
redaktor.

[Planning in a foreman's section] Opyt planirovaniia na uchastke
mastera. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry,
1954. 81 p.
(MIRA 8:1)

(Machinery industry--Accounting)

ANDREYEV, Ye. D.; EYKHENVAL'D, A. V., kandidat ekonomiceskikh nauk, redaktor;
SIADKEVICH, I. I., kandidat ekonomiceskikh nauk, rezensent; .
MATVEYEVA, Ye. N., tekhnicheskij redaktor.

[Operative planning for a machine-building factory engaged
in single and serial production] Operativnoe planirovaniye na
mashinostroitel'nom zavode edinochnogo i melkoseriinogo
proizvodstva. Moskva, Gos. nauchno-tekh. izd-vo mashinostroit.
lit-ry, 1955. 185 p.
(Machinery industry)

IVANOV, Nikolay Filippovich; GOHNSHTEYN, B.I., retsahment; BYKHENVALD, A.V.,
kandidat ekonomicheskikh nauk, dotsent, redaktor; TIKIN, A.V.,
redaktor izdatel'stva; POPOVA, S.M., tekhnicheskiy redaktor

[Operational planning; planning machine inspection every ten days
at machine building plants producing in lots] Operativnoe planiro-
vaniye; podekadnoe, mashinokomplektnoe planirovanie na mashino-
stroitel'nykh zavodakh seriinogo proizvodstva. Moskva, Gos. nauchno-
tekhn. izd-vo mashinostroit. lit-ry, 1956. 105 p. (MLRA 10:3)
(Machinery industry)

BYALKOVSKAYA, Vera Sergeyevna; RUSANOV, Fedor Fomich; ZALESSKIY, V.I.,
professor, retsenzent; LAPSHIN, V.A., inzhener, retsenzent;
~~BYCHENKAL'D, A.V.~~, kandidat ekonomicheskikh nauk, redaktor;
BOGOLIUBOVA, I.Yu., redaktor izdatel'stva; MODEL', B.O., tekhnicheskiy redaktor;
MATVEYEVA, Ye.N., tekhnicheskiy redaktor

[The economics of a new-type forge shop] Ekonomika kuznitsy novogo
tipa. Moskva, Gos. nauchno-tekh. izd-vo mashinostroit. lit-ry, 1956.
145 p. (Forging)

EYKHENVAL'D, A.V.

207

AUTHORS: Eykhenvval'd, A.V., and Sochinskiy, A.R.

TITLE: Operational and Production Planning and Dispatching
in a Machine-Building Plant (Operativno-proizvodstvennoe
planirovaniye i dispatchirovaniye na mashinostroitel'nom
zavode).

PUB. DATA: Gosudarstvennoye nauchno-technicheskoye izdatel'stvo
mashinostroitel'noy literatury, Moscow, 1957,
248 pp., 8000 copies.

ORIG. AGENCY: None given.

EDITOR: Letenko, V.A., Docent, Candidate of Economic
Sciences; Publishing House Ed.: Sakaganskiy, T.D.;
Reviewers: Bilinkis, M.S., Engineer, and Zakharov, M.Z.,
Engineer; Tech. Ed.: Sokolova, T.F.

Card 1/4

207

Operational and Production Planning and Dispatching (Cont.)

machine-building plants; basic problems encountered in operational and production planning; methodology employed in setting norm schedules for production processes; procedure of calculating annual, quarterly, and monthly assignments; and organization of an operational accounting and dispatching department. There are no references.

TABLE OF CONTENTS

Foreword

Ch. I. Importance and Objectives of Operational and Production Planning and Dispatching in a Machine-Building Plant	5
Ch.II. Basic Problems Encountered in Organization of Operational and Production Planning	13
Ch.III. Technical Documentation-a Foundation of Operational Production Pianning	31

Card 3/4

ARON, Ye.I., [translator]; MASH, V.A. [translator]; TAGER, S.N. [translator];
MYKHENVAL'D, A.V. [translator]; KHETNMAN, S.A., red.; KHABINSKAYA,
F.A., red.; ZLOTNIKOV, A.L., red.; KORMNOV, Yu.F., red.; IOVLEVA,
N.A., tekhn.red.; POTAPENKOVA, Ye.S., tekhn.red.

[Organization of production at industrial enterprises of the U.S.A.]
Organizatsiya proizvodstva na promyshlennyykh predpriatiakh SSSR.
Moskva, Izd-vo inostr.lit-ry. [Publ. in English as "Industrial
Engineering Handbook."] Vol.1. 1960. 475 p.

(MIRA 13:11)

(United States--Industrial management)

EYKHENVAL'D, N.S.

Some features of the geological structure of the northwestern
subsidence of the Tom'-Kolyvan' zone of folding. Trudy SNIIGGIMS
no.1:27-35 '59. (MIRA 15:4)
(Ob' Valley--Geology)

ALEKSANDROV, Aleksandr Vasil'yevich; BOGACHEV, A.I., kand.tekhn.
nauk, retsenraent; LOSKUTOV, V.V., kand.tekhn.nauk, retsen-
zent; EYKHORN, L.G., nauchnyy red.; OSVENSKAYA, A.A., red.
ERASTOVA, N.V., tekhn. red.

[Ship systems] Sudovye sistemy. Leningrad, Sudpromgiz, 1962.
428 p. (MIRA 15:8)

(Marine engineering)

EYKHVAL'D, K.Yu.

Conservation of rare objects of the Estonian flora. Okhr. prir. i
zapov delo v SSSR no.5:38-44 '60. (MIRA 14:2)

1. Tartuskiy universitet.
(Estonia--Natural monuments)

1 Eye KHE NVALID, U.N.

• Destructivnye metally chernykh stekly (Film Detection in Metals) Collection of Articles Moscow, October, 1979. 450 p. Errata add insetted. 1,550 copies printed.	15-
By: N.I. Shirokay, Candidate of Technical Sciences; N.I. Kuz'kin, Inspector Book, Ed.: V.P. Borisov; Managing Ed.: A.D. Zaytsevaya, Engineer.	
PURPOSE: This book is intended for engineers and technicians in the field of nondestructive inspection and testing of metals.	
CONTENTS: This collection of articles deals with methods of nondestructive ins- pection and testing of metals. Results of investigations conducted at scientific research institutes and plants of magnetic, electrical, X-ray, ultrasonic, and fluorescence-penetration methods of film detection are described. Detailed descriptions of film-detection methods and equipment are presented. Data are given on the status of the development of film- detection methods in nonindustrial countries. No parametrical data mentioned. Abstracts follow each of the articles.	47
Shirokay, N.I., Penetration of Metals by Alternating Current and Inspection by the Magnetic-particle Method	76
Borisov, N.I., Nonresonant Magnetic Fields on Parts or Initiates Shape and Inspection of Holes by the Magnetic-particle Method	55
Borisov, N.I., Equipment for Inspecting Parts by the Magnetic-particle Method	68
• Penkov, N.I., Ultrasonic Film Detector for Inspecting Non-penetrated Metal	76
Shirokay, N.I., and G.T. Slob-Moritza. Electromagnetic Induction Method of Film Detection	80
Bobrov, I.M., Some Methods and Instruments for Nondestructive Inspection	111
• Bobrov, I.M., The Influence of Coatings on Parts	111
• Slob-Moritza, G.T., Practical Application of Electromagnetic Methods of Non- destructive Testing	217
• Slob-Moritza, G.T., Film Detection in Light-alloy Parts by the Electromagnetic Induction Method	265
• Slob-Moritza, G.T., High-frequency Induction Instrument for Detecting Cracks and Intergranular Corrosion	273
• Slob-Moritza, G.T., Fluorescent-penetrant Film-detection Method and the Experience Gained by Its Use in Machine Building	299
• Slob-Moritza, G.T., Magnetic and Fluorescent-penetrant Inspection of Parts in the Military and Patriotic Features of Aircraft Equipment	305
• Slob-Moritza, G.T., Characteristic Features of the Use of the Fluorescent-penetrant Method for Inspecting Parts	363
• Slob-Moritza, G.T., Nondestructive Magnetic Methods for Measuring Thickness of Coatings	365
• Slob-Moritza, G.T., Electrical Thickness Gauge for Measuring Anodized Coatings of Aluminum Alloy Parts	384
• Slob-Moritza, G.T., Thermoelectrical Method of Measuring Thicknesses of Electro- plated Coatings	389
• Slob-Moritza, G.T., Thermoelectrical Method of Inspecting the Quality of Metals in Materials	398
• Slob-Moritza, G.T., Use of Back-scattering Beta-radiation for Inspecting Porousness of Coatings	406
Chernovskiy, S.V., New X-ray Equipment and Data Accuracies for X-ray Film Characteristics	502
Chernovskiy, S.V., X-ray Tube With Rotating Anode	519
Slob-Moritza, G.T., Ultrasonic Film Detection	561
Laptev, Sh.Y., and G.T. Prochorov, Equipment for Ultrasonic Inspection	596
X Chernovskiy, S.V., and N.I. Shirokay, General Characteristics of the Pulse-Echo Type Ultrasonic Test Method	609
X Chernovskiy, S.V., and G.T. Prochorov, Formation of Ultrasonic Inspection	627
X Chernovskiy, S.V., and L.I. Sloboda, Application of Ultrasonic Vibrations for Measuring the Thickness of Coatings	635

USSR / Farm Animals. Swine.

Q-4

Abs Jour : Ref Zhur - Biol., No 14, 1958, No 64508

Author : Eykhert, V.; Bodaniko, V.

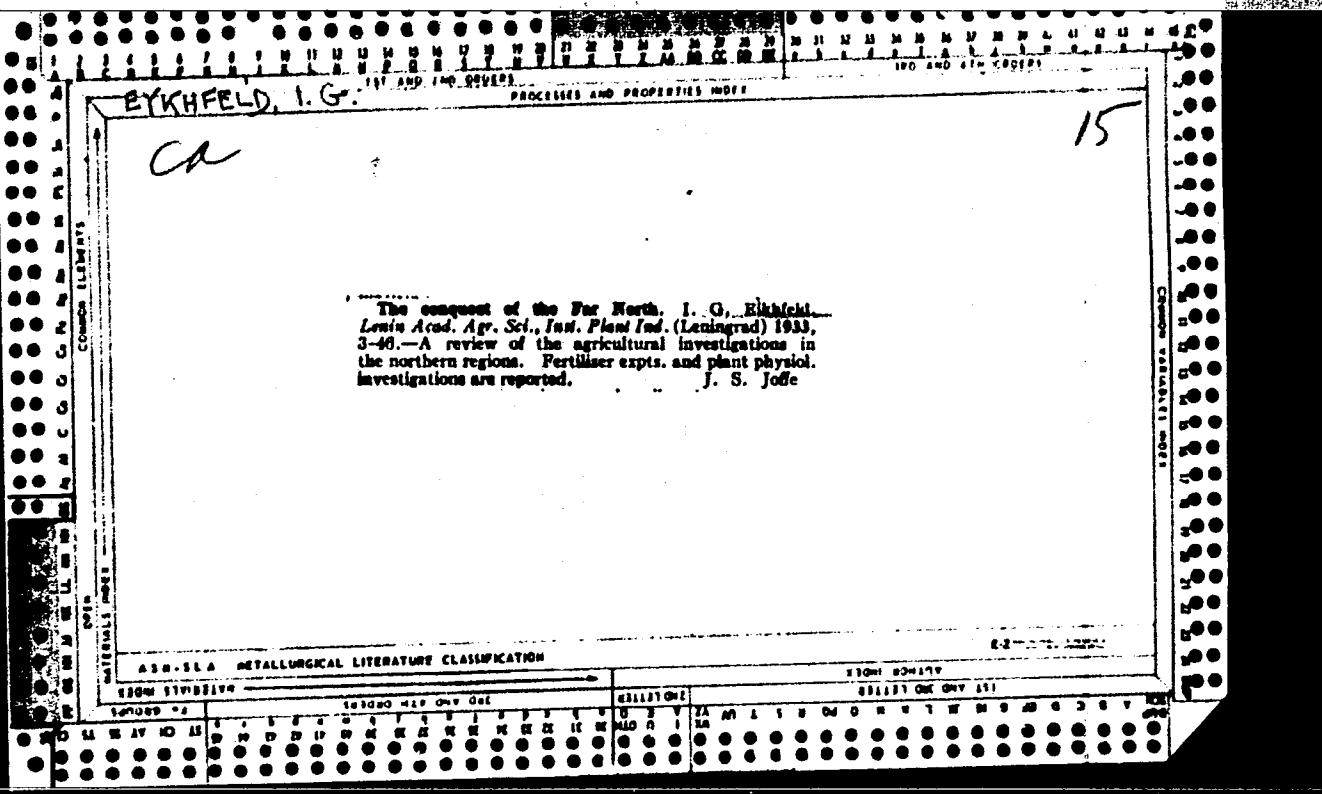
Inst : Not given

Title : Progressive Methods of Fattening Pigs.

Orig Pub : Peredov. opty. s.-kh. proiz-va Satvropol'ya, 1957, iyul'
avgust, 53-58

Abstract : No abstract given

Card 1/1



EYKHFEL'D, I. G.

Eykhfel'd, I. G. - "Results of the Autumn meeting of the All-Union Academy of Agricultural Sciences imeni V. I. Lenin and the problems of agricultural and biological scientific-research institutes of the Estonian SSR," In symposium: Nauch. sessiya po voprosam biologii 20-21 okt. 1948 g. (Akad. nauk Eston. SSR), Tartu, 1948, p. 21-6. - In Estonian language - Abridged transcription in Russian language

SO: U-3600, 10 July 53, (Letopis 'Zhurnal 'nykh Statey, No. 6, 1949).

EICHFELD, J., president.

Report on work of the Academy of Sciences of the Estonian S.S.R. in 1950 and the plan for scientific research work for 1951 [in Estonian and Russian] Eesti NSV Tead.Akad.Toim.l no.2:48-75 '52. (MLRA 6:12)

1. Akademija nauk Estonijskoj SSSR.
(Academy of Sciences of the Estonian S.S.R.)
(Estonia--Research) (Research--Estonia)

1. EYKHPEL'D, Acad. I.
2. USSR (600)
4. Research - Estonia
7. Science in a young republic. Tekh. molod. No. 4, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

BYKHVEL'D, Iogann Gansovich, 1893- , redaktor

[Establishing and using semipermanent pastures] Sozdanie i ispol'zo-
vanie dolgoletnikh pastbishch. Moskva, Gos. izd-vo sel'skhoz. lit-ry,
1955. 117 p.
(Pastures and meadows)

EYkhfel'd, I. G.

25-10-8/41

AUTHOR: Eykhfel'd, I. G., President of the Academy of Sciences of the
Estonian SSR

TITLE: The Famous Anniversary (K slavnoy godovshchine)

PERIODICAL: Nauka i Zhizn', 1957, # 10, p 30 (USSR)

ABSTRACT: The Estonian Academy of Sciences was founded in 1946 and during the time of its existence contributed largely to the development of the economy of the Republic, especially to the development of the oil shale industry.

At the present the Estonian Academy of Sciences is investigating new, more rational methods for thermal treatment of oil shale and elaborating scientific methods for developing the chemical industry on the basis of shale products. A. T. Kyll', A. A. Elenurm, S.A. Rang and S.V. Kiviryakhk developed a new method for thermal treatment of the shales by applying a solid heat transfer agent. The Candidates of Technical Sciences M. Ya. Gubergrits and S. I. Fayngol'd suggested a new method for shale production. The scientists O. A. Maddison, I. A. Khint, Kh. Ya. Myandmets and E. G. Oyamaa experiment with the production of cheap building material from the waste of the shale industry.

Card 1/3

25-10-8/41

The Famous Anniversary

The geologists K. K. Orviku and Kh. G. Pal'mre prepared the first geological map of Estonia. I. G. Khayl', L. E. Bayk, O. G. Kirret and Kh. K. Truu conduct research work on the development of power resources of the Republic and on the utilization of the local fuel resources. A study of the stationary galaxy has been completed by the Estonian astronomers A. Ya. Kipper, G. G. Kuz'min and Ya. E. Eynasto. V. G. Riyves studied small bodies of our solar system. Further a new way for photometric observation of comets and asteroids was discovered. The research work of Kh.P. Riyves concentrates on the theory of elementary particles. In the field of physics of solid bodies F. D. Klement and Ch. B. Lushnik achieved considerable success in the field of luminescence research. During the International Geophysical Year, Yu. K. Ross will study of solar radiation in the surface layers. In the biological field, A. Ya. Vaga, L. R. Laasimer and E. Kh. Parmaste conducted research on the vegetation cover of the Estonian SSR. E. V. Kumari, Kh. M. Khaberman and N. F. Mikel'saar investigated the faunal and piscine resources and M. M. Margus worked on the question of increasing the

Card 2/3

The Famous Anniversary

25-10-8/41

output of timber. There are two photographs.

ASSOCIATION: Academy of Sciences of the Estonian SSR (Akademiya nauk
Estonskoy SSR)

AVAILABLE: Library of Congress

Card 3/3

EYKHFEL'D, I.G. [Eichfeld, I.]

The Tallinn Botanical Garden of the Academy of Sciences of the
Estonian S.S.R. Biul.Glav.bot.sada no.33:3-11 '59.
(MIRA 12:10)

1. Akademiya nauk Estonskoy SSR.
(Tallinn--Botanical Gardens)

KELDYSH, M.V.; PALLADIN, A.V.; KUPREVICH, V.F.; ABDULLAYEV, Kh.M.; SATPAYEV,
K.I.; MUSKHELISHVILI, N.I.; MAMEDALIYEV, Yu.G.; MATULIS, Yu.Yu.;
GROSUL, Ya.S.; PLAUME, K.K.; KARAKHEYEV, K.K.; UMAROV, S.U.;
AMBARTSUMYAN, V.A.; BATYROV, Sh.B.; EYKHFEL'D, I.G. [Eichfeld, J.]

Comments by presidents. Nauka i zhizn' 28 no.10:2-17 0 '61.
(MIRA 15:1)

1. Prezident Akademii nauk SSSR (for Keldysh). 2. Prezident Akademii
nauk Ukrainskoy SSR (for Palladin). 3. Prezident Akademii nauk
Belorusskoy SSR (for Kuprevich). 4. Prezident Akademii nauk
Uzbekskoy SSR (for Abdullayev). 5. Prezident Akademii nauk
Kazakhskoy SSR (for Satpayev). 6. Prezident Akademii nauk Gruzinskoy
SSR (for Muskhelishvili). 7. Prezident Akademii nauk Azertaydzhanskoy
SSR (for Mamedaliyev). 8. Prezident Akademii nauk Moldavskoy SSR (for Grosul).
(for Matulis). 9. Prezident Akademii nauk Latviyskoy SSR (for Plaude). 11. Prezident
Akademii nauk Kirgizskoy SSR (for Karakeyev). 12. Prezident Akademii
nauk Tadzhikskoy SSR (for Umarov). 13. Prezident Akademii nauk
Armyanskoy SSR (for Ambartsumyan). 14. Prezident Akademii nauk
Turkmenskoy SSR (for Batyrov). 15. Prezident Akademii nauk Estonskoy
SSR (for Eykhfel'd).

(Russia--Economic conditions) (Research)

ÉYKHFEL'D, V. I.

USSR/ Chemistry- Isomerisation
Chemistry- Hydrocarbons

Feb 49

" Contact Isomerization of Nonsaturated Hydrocarbons Over Metal Oxides," P. Ya. Levina,
I. e. A. Viktorova, V. I. Éykhfel'd, Moscow Ord of Lenin State U, Lab Org Chem ironi
Acad N. D. Zelinskiy, 4 pp

" Zhur Obshch Khim" Vol XIX, No 2

Studied contact isomerization of alpha-acetylene hydrocarbons over mixed contact-chromic and aluminum oxides. Established that chromic and aluminum oxides have isomerization ability not only for diene hydrocarbons with an isolated system of double bonds and to aromatic hydrocarbons with unsaturated side chains, but also for alpha-acetylene hydrocarbons with an open carbon chain. Submitted 15 Nov 47

PA 46/49T18

EYKHORN, L.

PA 30781

RGD74695

USSR/Ships - Construction
Corrosion - Prevention

Aug/Sep 1945

"The Right Use of Protective Devices in Ship Construc-
tions," L. Eykhorn, Engr, 8 pp

"Morskoy Flot" No 8/9

One method of protecting ship parts, particularly such things as bolts and rivets, from corrosion by sea water is the use of zinc protectors. This article discusses some means of correct installation of such zinc protectors and proper care for them during the course of the operation of the ship. Amply illustrated with diagrams of the wrong and right methods of installing these protectors.

30781

EYKHORN, L.

USSR/Fire Extinguishers
Fire prevention - Ships

Jul 1947

"Prospect of Adopting Water Spray for Extinguishing
Fires on Tankers," L. Eykhorn, 3 pp

"Mor Flot" No 7

Elaboration of "Extinguishing of Oil Fires by
Water Spray," by Markarov in No 7 and 8, 1946
issues of "Mor Flot." States reasons for the
effectiveness of water spray, range of adaptability,
manner of construction, optimum operational loads,
and installation of spray systems in Tankers.

16T1

SINOPAL'NIKOV, V.A.; EYKHMANS, E.F.

Radius of the cutting-edge rounding of hard-alloy cutting tools.
Stan. i instr. 36 no.6:35-37 Je '65. (MIRA 18:8)

EYKHMAN, V.N.

Calculation of pressure changes in an unbounded water-bearing bed
during the period of gas infection in case of the incompleteness
of displacement. Gaz. prom. 6 no.11:6-9 '61. (MIRA 15:1)
(Gas dynamics)

CHARNYY, I.A.; KHOLIN, A.I.; EYKHMAN, V.N.; SEVOST'YANOV, M.M.

Dynamics of draining of a layer in the construction of underground
gas reservoirs. Gaz.prom. 7 no.1: 51-54 '62. (MIRA 15:1)
(Gas, Natural--Storage)

BUZINOV, S.N.; UMRIKHIN, I.D.; EYKHMAN, V.N.

Effect of layer boundaries on pressure changes in pressure wells.
Trudy VNII no.37:180-193 '62. (MIRA 16:6)
(Oil reservoir engineering)

S/122/62/000/008/003/004
D262/D308

AUTHORS: Yudkovskiy, S.I., Eykhmans, E.F., Guseva, A.N., Engineers, Funke, V.P., Romanov, K.P., and Smirnov, F.F., Candidates of Technical Sciences

TITLE: Alloys on the TiB₂ basis for cutting tools

PERIODICAL: Vestnik mashinostroyeniya, no. 8, 1962,
44 - 47

✓

TEXT: The authors describe a series of experiments conducted in order to establish the physical, mechanical and cutting properties of TiB₂ alloys. Specimens of 15 alloys containing various percentages of TiB₂ and bounding metals (Fe, Co, Ni) were tested for bending, hardness, and coefficient of friction. Their cutting properties under various working conditions were also investigated and the results of the experiments recorded in form of tables and graphs, and analyzed. TiB₂ alloys (obtained by powder pressing and baking process) possess many advantages

Card 1/2

Alloys on the TiB₂ basis ... S/122/62/000/008/003/004
D262/D308

over the existing cutting materials (greater hardness, better scale-resistance, absence of adhesion to worked materials, lower coefficient of friction) but their strength is comparatively low. There are 5 figures and 5 tables.

✓

Card 2/2

L 23369-65 EWT(m)/EPF(n)-2/EM(d)/EMP(t)/EMP(k)/EMP(b) Pf-4/Pu-4 MJW/JD/JG
ACCESSION NR: AR5000740 S/0277/64/000/009/0020/0020

SOURCE: Ref. zh. Mashinostroitel'nye materialy, konstruktsii i
raschet detaley mashin. Gidroprivod. Otd. vyp., Abs. 9.48.122

AUTHOR: Kreymer, G. S.; Smirnov, F. F.; Kamenskaya, D. S.;
Eykhmans, E. F.

28
B

TITLE: Alloy T5KL2V without tantalum for especially heavy types of
steel machining work

27

CITED SOURCE: Sb. tr. Vses. n.-i. in-t tverdykh splavov, no. 5,
1964, 29-35

TOPIC TAGS: tungsten carbide, carbide tool, cutting tool, tantalum
containing alloy/ alloy T5KL2V, alloy TT7KL2

18

TRANSLATION: Results are reported of a study of the cutting
properties of hard alloys TT7KL2 (tungsten carbide 81%, tantalum
carbide 3%, titanium carbide 4%, and cobalt 12%) and T5KL2V (tungsten
carbide 83%, titanium carbide 5%, and cobalt 12%). Both alloys have
identical physical and mechanical properties (σ_{sb} , bend = 170-180

Card 1/2

L 23369-65

ACCESSION NR: AR5000740

5

kg/mm², HRA 87-88). In laboratory tests, a determination was made of the dependence of change in stability on cutting speed for different cutting cross sections under industrial conditions - the alloys were tested in different machining operations, and were compared with standard hard alloys (VK15, VK11, VK8V) and with fast cutting steels R18 and R24. The broad laboratory and industrial tests carried out showed that alloy T5KL2V without tantalum can be used successfully to replace fast cutting steels in rough turning operations on welding seams, planing, and other kinds of machining, where the strength of the standard hard alloys is not sufficient to assure reliable operation. In these cases, alloy T5KL2V is either not inferior in stability to alloy TT7KL2 or is only slightly inferior. 5 figures, 2 tables.

SUB CODE: MM

ENCL: 00

Card 2/2

L 32247-65 EWP(e)/EWT(m)/EWP(w)/EWA(d)/T/EWP(t)/EWP(k)/EWP(b) PF-4 IJP(c)

JD

ACCESSION NR: AR5004788

S/0137/64/000/010/I080/I080

SOURCE: Ref. zh. Metallurgiya, Abs. 101573

34

32

6

AUTHOR: Yudkovskiy, S. I.; Eykhmans, E. F.; Guseva, A. N.; Funke,
V. F.; Romanov, K. F.; Smirnov, F. F.

TITLE: Cutting and physicomechanical properties of alloys with a
titanium boride base

CITED SOURCE: Sb. tr. Vses. n.-i. in-t tverdykh splavov, no. 5,
1964, 130-141

TOPIC TAGS: titanium base alloy, boron containing alloy, iron containing alloy, titanium diboride alloy, metal mechanical property, metal physical property, cutting tool

TRANSLATION: Results of an investigation of the cutting and
physicomechanical properties of alloys based on titanium diboride
are described. The alloys are outstanding for a high degree of
hardness, ability to retain strength at high temperatures, a small
friction coefficient, a high temperature for the start of adhesion to

Card 1/2

L 32247-65

ACCESSION NR: AR5004788

material, and a high resistance to scaling. The best cutting properties are exhibited by alloys with iron as a binder (alloys of $TiB_2+15\%Fe$). Alloys based on titanium diboride can be used as materials for tools, including tools for machining heat resistant alloys. 11 literature titles. L. Romancheva. 18

SUB CODE: MM ENCL: 00

Card 2/2

EYKHVAL'D, K. Yu.: Master Biol Sci (diss) -- "The subgenus of raspberry, *Cylactis* rafin. Investigation of the phylogensis of a boreal plant group".
Tartu, 1958. 39 pp (Tartu State U, Chair of the Systematics of Plants and
Geobotany), 175 copies (KL, No 5, 1959, 147)

EYKHVALD K. Yu.

COUNTRY : USSR M
CATEGORY : CULTIVATED PLANTS. Ornamental.
PLS. NO. : RZBiol., No. 1, 1959, No. 1922
AUTHOR : Dzhemal, L.
TITLE : Reintroduction of the Ceylon cardamom in Western Kazakhstan SSR
PUB. : Vestn. Akad. Nauk SSSR, Ser. Biolog., 1959, 50, 252-253
ABSTRACT : The place of the ancient Ceylon cardamom in Kazakhstan is described. The author notes that the introduction of this West Ceylonese species began in the west. The author also notes that it was introduced more than 70 years in the Terekta Hill district, where it was primarily applied. This plant also grows on steppes and mountain slopes up to 1400 m. The author is

DATE: 3/2

88055

24.6900
S739-06/000/006/024/032
E032/E414

24.6900

AUTHORS Mukhtarov, N. I., Evtushikov, R. G. and Gadzhiev, S. A.

TITLE Radiative Decay of the π^+ Meson

PERIODICAL Izvestiya vysshikh uchebnykh zavedeniy, Fizika,
1960, No. 6 pp 142-146

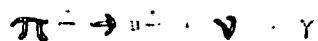
TEXT After the discovery of the non-conservation of parity (Lee and Yang, Ref. 1) in weak interactions it became necessary to review the theory of the various processes in which these interactions are involved. This has been done by various authors (Ref. 1 to 10) who discussed in detail the β -decay of nuclear non-radiative disintegrations of π and μ -mesons and so on. The radiative disintegration of the π meson has been discussed by Lotte, Rudik, Fry, Egyd, Primakoff, Vedenov, Mukhtarov, Bund and other (Ref. 15 to 18). In some of these papers, the non-conservation of parity was taken into account while in others the anomalous magnetic moment of the μ -meson was accounted for. The present authors report a study of the radiative decay mode of the π -meson.

Card 175

88055

5/139/60/000/006/022/032
F032/E414

Exclusive Decay of the π^+ Meson



on the basis of the theory of Dirac particles with oriented spins and taking into account the anomalous magnetic moment of the meson. The polarization and the angular distribution of the decay products are computed. However, only the longitudinal polarization of the decay products is taken into account since it is an integral of motion and, as was shown by Sokolov et al. (Ref. 20), the transverse and time components of the spin pseudovector can easily be expressed in terms of the longitudinal component. Following the methods of Sokolov (Ref. 23 and 24), the longitudinal polarization of the meson and the neutrino is included with the aid of the projection operator $\Gamma_{L\bar{L}}(p)$, whose eigenvalues are equal to twice the spin projection in the direction of the momentum. The circular polarization of the pion is taken into account with the aid of

275

88055

S/139/60/000/006/022/032
E032/E414Radiative Decay of the π^\pm Meson

the vector

$$a_i = \frac{1}{\sqrt{2}} (\beta + i l [n \beta]),$$

Eq.
P.
142

(Sokolov, Ref. 21 and 22). In this expression β is a unit vector perpendicular to $n = (\underline{x}/x)$; $\underline{h_x}$ is the momentum of the γ -ray; $l = 1$ for right-handed polarization and $l = -1$ for the left-handed polarization. A general expression is derived for the decay probability using the four-component neutrino theory. This probability contains a term due to the anomalous magnetic moment of the μ -meson and when this term is put to zero the formula reduces to that given by Mukhtarov and Gadzhiev (Ref. 17). The general formula is, however, rather unwieldy but it can be simplified with the aid of the non-relativistic approximation. On this approximation, the differential decay

Card 3/5

88055
S/139/60/000/006/022/032
E032/E414

Radiative Decay of the π^\pm Meson

probability is given by

146

А. И. Мухтаров, Р. Г. Эйламбеков, С. А. Гаджинев

Eq.
(11)

$$dW = \frac{e^2 g^2 k^2 d\kappa \sin \theta d\theta}{16 \pi c h^2 K_{0x} K_0^2} (K_{0x} - K_0) \left[1 + \left(\frac{\mu'}{e} \right) K_0 \right]^2 (1 + l s_z) (1 - l \cos \theta). \quad (11)$$

where Θ is the angle between the direction of motion of the μ -meson and of the photon. It is clear from this expression that if the spin of the μ -meson is antiparallel to the motion of the γ -ray ($\cos \Theta = -1$) then the decay probability has a non-zero value only when an antineutrino is emitted and the γ -ray has a right-handed polarization. If, on the other hand, the spin of the μ -meson is in the opposite direction, then one must allow the emission of a neutrino and a γ -ray with a left-handed polarization. It follows that if the neutrino is a completely longitudinally polarized particle, then the probability of a radiative π -decay has a non-zero value when the spins of all

Card 4/5

88055

SP-129 (Revised October 1962)
Page 1 of 1

THEORETICAL PREDICTION OF THE π^- MESON

The particle is an A3-particle or a K3-particle to them
in the theory of mesons. This notation is
equivalent to the statement that the tensor formed by the
angular momentum components closed the angular momentum
as observed. Acknowledgments are expressed to professor
V. S. Korov and B. R. Kerman for interest and discussions
of the problem of references [1-3] and to Dr. V. V. Gavrilov.

A. S. Dzh. N. Tzernovdzhevskiy gor universitet imeni M. Kirov
Azerbaijan State University imeni M. Kirov

DRAFTED May 5, 1959 (initially)
REVIEWED May 25, 1960 (after revision)

1959-5-2

EYL'BER, L.A.

Etiology and pathogenesis of cancer according to immunological studies.
Ter. arkh., Moskva 25 no. 1:90-91 Jan-Feb 1953. (CIML 24:1)

1. Professor, Active Member of the Academy of Medical Sciences USSR.

~~BYL'BERMAN, R.P.~~

Localization of tuberculous cavern according to pulmonary tomographic data. Probl. tuberk., Moskva no. 4:74 July-Aug 1953.
(CIML 25:4)

1. Of Yalta Central Clinical Sanatorium No. 1 (Head -- Candidate Medical Sciences G. P. Federov; Assistant Scientific-Therapeutic Head -- Honored Physician RSFSR V. K. Tarantayev).

EYI. EIL'BERMAN YE. N.

USSR/Inorganic Chemistry - Complex Compounds, C

Abst Journal: Referat Zhur - Khimiya, No 1, 1957, 655

Author: Eil'berman, Ye. N., and Smirnova, M. M.

Institution: None

Title: New Method for the Synthesis of Imidodisulfonates

Original

Periodical: Zh. obshch. khimii, 1956, Vol 26, No 3, 672-675

Abstract: A method is described for the synthesis of the diammonium salt of imidodisulfonic acid by the reaction of NH_4HSO_3 with a neutral solution of the ammonium salt of hydroxylamine monosulfonic acid. A method described earlier (Neorganich. sintezy, 1951, Vol 2, 170, 172, 175) for the synthesis of amidosulfonic acid from NH_2OH and SO_2 has been simplified. In order to speed up the reaction at ordinary pressures, SO_2 has been replaced with NH_4HSO_3 . The amidosulfonic acid is separated from the product mixture with concentrated H_2SO_4 .

Card 1/1

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00041231

EYLENKRIG, A. J.

"Class B Modulation Equipment," Iz. Elektroprom. Slaboga Toka, No.9, 1946

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00041231(

EYLENKRIG, A. I. and CLIKMAN, S. E.

Modulyatsionnye ustroystva dlya peredatchikov c amplitudnoy modulyatsiyey
[Modulating Devices for Transmitters with Amplitude Modulation], 1954, Moscow,
"Sovetskoye Radio" Publishing House, 240 pages, 7.85 rubles.

The book consists of 8 chapters: terminal stage of modulator for transmitters with amode modulation, preterminal stage of modulator, stages of preliminary amplification, modulating devices for transmitters with grid modulation, modulating devices for multigrid tubes, application of negative feed-back, design of circuits of transmitters with negative feed-back, parasitic modulation of transmitters and measures for reducing it. The book is intended for a wide circle of engineers and technicians of radio broad-casting and radio communications, and also for students of the senior courses of special educational institutions.

SO: M-1324, 19 Nov 56

BYLENKRIG, O., inzh.-arkhitektor

Increase the holding capacity of livestock buildings. Nauka i pered.
op. v sel'khoz. 9 no. 7:25-27 Jl '59. (MIRA 12:11)
(Farm buildings) (Stock and stockbreeding)

EYLENTUKH, A.M., inzh.; ZOTOV, G.M., inzh.

Choice of the parameters of an electric network for connecting
electric motors. Vest. sviazi 22 no.12:15 D '62. (MIRA 16:1)
(Electric driving)

EYLENTUKH, A.M.

Electric power supply to consumers on the Bukhara - Ural Gas
Pipeline from a single-line - ground power transmission line.
Stroil truboprov. 8 no.5:3-6 My '63. (MIRA 16:5)

1. Tashkentskoye otdeleniye Gosudarstvennogo soyuznogo proyektnogo
instituta Ministerstva svyazi SSSR, Tashkent.
(Electric lines--Overhead) (Electric power distribution)
(Gas, Natural--Pipelines)

BYLIE, A.A., assist., kand. tekhn. nauk; ZALGALLER, S.I., dots., kand. fiz.-mat. nauk.

Protection from false operation of electric switch drives and control relays. Sbor. nauch. trud. INTEIZHT no.5:81-107 '53. (MIRA 11:3)
(Railroads--Electric equipment)

32 (?)

SOV/112-57-5-10912

Translation from: Referativnyy zhurnal. Elektrotehnika, 1957, Nr 5,
pp 189-190 (USSR)

AUTHOR: Pashentsev, I. D., Eyler, A. A., Volkov, V. F.

TITLE: Use of No-Contact Elements in Transportation Automation and
Telemechanics (Primeneniye beskontaktnykh elementov v sistemakh
transportnoy avtomatiki i telemekhaniki)

PERIODICAL: Sb. Leningr. in-ta inzh. zh.-d. transp. 1956, Nr 151, pp 199-221

ABSTRACT: One of the most promising types of no-contact equipment is the magnetic amplifier that has high engineering and operating performance characteristics: practically unlimited life, high reliability due to absence of moving parts, readiness to operate at any time, and operability under conditions of vibration, high humidity, and air contamination. Application of no-contact elements is most efficient in pulse-type and code systems, where the right combination of contact and no-contact elements permits relatively simple

Card 1/2

RYAZANTSEV, B.S.; NYLER, A.A.; MARUSHKO, F.I.

*Forty years of scientific and pedagogic activities. Avtom., telem.
i sviaz' 2 no.1:40-41 Ja '58.
(MIRA 11:1)
(Lupal, Nikolai Vasil'evich, 1887-)*

BYLER, A.A., doct.; ROSLIANS, V.S., inzh. (Leningrad)

Automatic control of train movement. Zhel. dor. transp. 40 no.2:
78-80 F '58. (MIRA 11:3)
(Railroads--Automatic train control)

EYLER, A. A.

MARUSHKO, Fedor Ivanovich, dotsent, kand.tekhn.nauk; PEREBOROV, Aleksandr Sergeyevich, dotsent, kand.tekhn.nauk; EYLER, Aleksandr Alek-sandrovich, dotsent, kand.tekhn.nauk; VOLKOV, Vyacheslav Fedorovich, starshiy prepodavatel'; MARENKOVA, G.I., inzh., red.; VERINA, G.P., tekhn.red.

[Automatic and remote control in railroad transportation] Avto-matika i telemekhanika na zheleznodorozhnom transporte. Moskva, Gos.transp.zhelez-dor.isd-vo, 1959. 397 p. (MIRA 13:2)
(Railroads--Automatic train control)
(Railroads--Signaling)

LUPAL, Nikolay Vasil'yevich; BOSIN, Matvey Itskovich; PERMBROV,
Aleksandr Sergeyevich; SMIRNOVA, Appolinariya Vasil'yevna;
Nyler, Aleksandr Aleksandrovich; TSUKANOV, T.T., kand.
tekhn.nauk, retsenzant; SHUPLOV, V.I., kand.tekhn.nauk,
retsenzant; GLUZMAN, I.S., kand.tekhn.nauk, red.;
USENKO, L.A., tekhn.red.

[Theoretical principles of automatic and remote control]
Teoreticheskie osnovy avtomatiki i telemekhaniki. By N.V.
Impal i dr. Moskva, Vses.izdatel'sko-poligr. ob"edinenie
M-va putei soobshcheniya, 1961. 414 p.

(MIRA 14:12)

(Automatic control) (Remote control)

PETROV, A.P., prof.; EYLER, A.A., dotsent; NEUGASOV, N.M., dotsent;
BOSIN, M.I., dotsent; ZAV'YALOV, B.A., inzh.

Experiment in traffic control in a railroad section with the aid
of the "Ural-1" calculating machine. Vest.TSNII MPS 20 no.3:52-
56 '61. (MIRA 14:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zheleznodorozhnogo
transporta i Leningradskiy institut inzhenerov zheleznodorozhnogo
transporta imeni V.N.Obraztsova.

(Railroad—Traffic)
(Electronic calculating machines—Programming)

EYLER, A.A., kand.tekhn.nauk (g.Leningrad); ZAV'YALOV, B.A., inzh. (g.Leningrad)

Automatically controlled train dispatching. Zhel.dor.transp. 43
no.4:21-26 Ap '61. (MIRA 14-3)
(Railroads—Train dispatching) (Automatical control)

EYLER, Aleksandr Aleksandrovich; GLUZMAN, I.S., kand. tekhn. nauk,
red.; USENKO, L.A., tekhn. red.

[Control computers] Upravliaiushchie vychislitel'nye mashiny.
Moskva, Transzheldorizdat, 1962. 169 p. (MIRA 15:10)
(Automatic control)
(Electronic calculating machines)
(Railroads—Electronic equipment)

EYLER, A.A., kand.tekhn.nauk; PETUKHOV, K.I., kand.tekhn.nauk

Synthesis of switching circuits. Avtom., telem. i sviaz' 6 no.3:
13-15 Mr '62. (MIRA 15:3)
(Electric networks) (Railroads--Signalizing)

LISTOV, V.N.; NOVIKOV, V.A.; PETROV, I.I.; RYAZANSEV, B.S.;
SVERDLOVICHENKO, D.Ya.; SOKOLOV, V.F.; TYURIN, V.L.; EYLER, A.A.

Sixtieth anniversary of the birth of an outstanding scientist.
Avtom., telem. i sviaz' 6 no.4:44 Ap '62. (MIRA 15:4)
(Ramlau, Pavl Nikolaevich, 1902-)

PASHENTSEV, Igor' Dmitriyevich, dots.; KAMOVSKIY, Vadim Romanovich,
inzh.; EYLER, A.A., red.

[Transistorized magnetic amplifier for transducers controlling the parameters of automatic control processes] Mag-nitopoluprovodnikovyj usilitel' dlja datchikov, kontroliruiushchikh parametry protsessov avtomaticheskogo regulirovania. Leningrad, 1964. 13 p. (Leningradskii dom nauchno-tehnicheskoi propagandy. Okonen peredovym opytom. Seriya: Pribory i elementy avtomatiki, no.2) (MIR 17:7)

GUDKOV, A.V., inzh.; MARUSHKO, F.I., kand.tekhn.nauk; EYLER, A.A., kand.
tekhn.nauk

Over-all automation of mine haulage. Mekh.i avtom.proizv. 16
no.4:56-58 Ap '62. (MIRA 15:4)
(Mine haulage) (Automation)

EYLER, A.S.

Specialization in the manufacture of articles based on their
standardization. Standartizatsiya 28 no.6:56-58 Je '64.
(MIRA 17:9)

1. Moskovskiy sovet narodnogo khozyaystva.

EYLER, S.A., inzh.. Prinimali uchastiye: KOZLINSKIY, N.A., inzh.; MAKHONIN, A.N., inzh.; KUZNETSOV, V.V.; POLYAKOV, V.F.. GURKIN, V.I., kand. tekhn.nauk, nauchnyy red.; PAKHOMOVA, M.A., red.izd-va; TEMKINA, Ye.L., tekhn.red.

[Pipeline construction] Montazh narushnykh truboprovodov. Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit.materialam, 1959.
(MIRA 13:3)
233 p.

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stva.
2. Brigadiry tresta No.4 Mospodzemstroya (for Kuznetsov, Polyakov).
(Pipelines)

KLIMOV, V.T.; MARICHEV, V.I.; RUBINCHIK, A.M.; EYLER, S.A.,
nauchn. red.; ZVORYKINA, L.N., red.; BOROVNEV, N.K.,
tekhn. red.

[Construction of cofferdams and caissons] Stroitel'stvo
opusknykh kolodtsev i kessonov. Moskva, Gosstroizdat,
1963. 247 p.
(Cofferdams) (Caissons)

GALECKI, Wladyslaw; EYLMES, Zygmunt; PRZYWARA, Stanislaw

Attempted evaluation of electrosurgical therapy of malignant tumors of the maxilla. Pol. tyg. lek. 19 no.44:1691-1693
N 2/64

1. Z Oddzialu Chirurgicznego Instytutu Onkologii, Oddzialu w Gliwicach (Kierownik Oddzialu Chirurgicznego: dr. med. W. Galecki).

SYMAN, T.

"Designing Plastic Concretes." p. 255 (Inżyniera I Budownictwo, Vol. 10, No. 8,
Aug. 1953, Warszawa)

SO: Monthly List of East European Accessions, Vol. 3, No. 6, Library of Congress, June,
1954, Unci.

EYMAN, F.

EYMAN4F8

600

1. IOFA, Z.; USTINSKIY, B.; and EYMAN, F.

2. USSR (600)

"The Electrocapillary Curves of Concentrated Solutions of Acids", Zhur. Fiz. Khim.,
13 No. 7, 1939. Part II. "The Absorption of Ions in Solutions of HCl, HBr and
 H_2SO_4 ". MGU, Electrochemical Laboratory. Received 9 February 1939.

9. [REDACTED] Report U-1615, 3 Jan. 1952.

Method for designing porous and structural concrete. Kary
TIAN EYKAN. Materialy Bydgoszcz, 7 [8] 134-42 (1937).
It gives an analysis of the strength of structural and porous concrete on the basis of raw materials and derives original formulae for the design of concrete structures.

EYMAN, K.

"Method of designing plastic concrete; copyright reserved." p. 44. (MATERIALY
BUDOWLANE, Vol. 8, no. 2, Feb. 1953, Warszawa, Poland)

SO: Monthly List of East European Accessions, L. C., Vol. 3, No. 5, May 1954, Uncl.

EYMAN, K.

(MATERIALY BUDOWLANE, Vol. 8, No. 10, Oct. 1953, Warszawa, Poland)
"Influence of detrimental components on the swelling of slag concrete," p. 272

SO: MONTHLY LIST OF EAST EUROPEAN ACCESSIONS, L.C., Vol. 3, No. 4, APRIL 1954

EYMAN K.

4070

69445 : 69135(047)

Kluz T., Eymann K. Production of Prefabricated Construction Elements from Raw Gypsum.

"Produkcja prefabrykowanych elementów budowlanych z surowego kamienia gipsowego". Materiały Budowlane. No. 1, 1955, pp. 3-11, 18 figs., 4 tabs.

A report of laboratory investigations conducted at the Institute of Pre-stressed Concrete Prefabrication of the Warsaw Polytechnic over a new method for the production of prefabricated elements from raw gypsum. With this method, the elements are formed from raw gypsum (ground, and mixed with water) and steam-cured in an autoclave, which renders the gypsum active (it loses 1.5 molecules of water). The steam-curing is then interrupted, the gypsum cooled down, combined with water and hardened. The product has a crystalline structure and is highly resistant. Integrating all operations into one production cycle makes it possible to eliminate the process of drying and repeated grinding. The investigation covered the properties of the gypsum produced by the KE method, and the factors which influence its quality.

MT

①

EYMAN, K.

Poland/Fitting Out of Laboratories --- Instruments, Their Theory, Construction, and Use, H

Abst Journal: Referat Zhur - Khimiya, No 1, 1957, 1356

Author: Eyman, K., Pictrowski, S., and Hladyniuk, W.

Institution: None

Title: A Method for Determining the Moisture Content of Granulated Substances with a Pycnometer

Original

Periodical: Mater. budowl., 1955, Vol 10, No 11, 300-304; Polish

Abstract: A pycnometer (P) consisting of a glass flask with a capacity of ca. one liter with a conical lid having a 6 mm opening at the top was used by the authors in determining moisture content. First, the weight P_1 of the pycnometer filled with water is determined; next, P is emptied and refilled with one kg of the material to be investigated, water is added, and the metallic cap screwed on. The flask is shaken to remove trapped air bubbles, after which water is added up to the mark and the flask weighed again. The weight

Card 1/2

EYMAN, Krystian, prof. dr

Definition of workability of concrete. Inz i bud 20 no.6:212 Je
'63.

EYMAN, Krystian, prof. dr inz.

Selecting method of graining ordinary concrete aggregates.
Inz i bud 21 no.10:365-367 0 '64.

1. Technical University, Warsaw.

ZYMANIS, F. A.

What's new today? Read *ENTERTAINMENT WEEKLY* for the latest reviews and interviews.

Editorial Board of Series: V. I. Moshkin, Academician (Inst. K.N. Shul'geevsky) (Institute Head, Ed.), Yu. S. Zaslavsky (Deputy Inst. Head, Ed.), L. E. Tishchenko, B. I. Verkhovskiy, S. P. Nazarov, L. I. Petrushin [and others] (members).

POLY(1,4-PHENYLENE TEREPHTHALIC ACID) 17

PURPOSE This book is intended for specialists in the field of machine and instrument manufacture who use radioactive isotopes in the study of materials and processes.

CONTENTS: This collection of papers covers a very wide field of the utilization of tracer methods in industrial research and control.

The topic of this volume is the use of radiisotopes in the machine-instrument-manufacturing industry. The individual papers discuss the applications of radiisotope techniques in the study of steels and alloys, problems of friction and lubrication, metal cutting, engine performance, and defects in metals. Several papers are devoted to the use of radiisotopes in the automation of industrial processes, recording and measuring devices, quality control, flowmeters, level gauges, safety devices, radioactive counter, etc. These papers represent contributions of various Soviet institutes and laboratories. They were published as transactions of the All-Union Conference on the Use of Radioactive and Stable Isotopes and Radiation in the National Economy and Science, April 4-12, 1951. No personal names are mentioned. References are given at the end of most of the papers.

Aurah, Ya.-A., V.M. Banashuk, M.S. Gombe, I.M. Tikhonov, A.B. Kostylev, V.I. Yermakov, and V.I. Yermakova. 1980. *Khimiya i tekhnika vysokomolekulyarnykh soedinenii*. Naukova Dumka, Kiev.

Havrdsky, J. Institut chemie a fyziky materiialu, Karlova Univerzita Praha, Praha 8, Czechoslovakia.

Professor V. P. Vlasov, Institute of Physics, Academy of Sciences, Latvian SSR, USSR.

Komissar, and Dzhinara Plants. Automation

2-2
Soviet Union Scientific Coal Institute. Some Notes on
and Control Equipment With Radioactive Molecules.

CRYSTAL TRICLINES 263

Shumkovich, M. N., Yu. Dushchin, and N. I. Polozkikh. Evaluation of the Minimum Necessary Charge of Coatings in a Gunpowder Gun. *Zhurnal Tekhnicheskoy Kibernetiki*, no. 1, p. 10-14, 1966.

Liquid radioactive isotopes for the automatic control of the flow of
Academy of Sciences, USSR. Use of
International Conference on the Application of Nuclear Techniques in
Automation and Telemechanics, Moscow, 1967

Isotopes in the Control of the Process of Steel Strip Manufacture 271
Khudobayev, M. S., and V. V. Molitsev. Institut avtomaticheskoi mehanicheskoi i tekhnicheskoi avtomatiki, Institute of Automation and Telemechanics of the USSR Academy of Sciences.

Academy of Sciences, USSR). USE OF Radioactive Radiations in the Noncontact Control of the Volume and Velocity of a Stream of Gas

John Y. Fox, and D. M. Ziv. Use of Alpha Emitters for the Measurement of Gas Density.

WILDFORD, G.G., K.A. JURMAN, and T.O. BOYDAN (Instituto Insedebal -
Instituto de Fisica e Quimica - Universidade de São Paulo) - Scientific
Research Institute for High-Power Instrumentation. Equipment
for the Automatic Control of Gas Flow by Means of Beta Radiation 265

Dobrotolik, P.A., L.V. Melitina, and N.I. Paninov (Central'nyy Nauchno-Issledovatel'skiy Institut Shchektovy Protsessov i Elektrostaticheskogo Svoystva Polimerov). Scientific Research Institute of the Polytechnic Industry. - No. 1000. Radioactive Isotopes for the Dissipation of Electrostatic Charges in the Soil. - Sov. Pat. No. 1000.

Y = 600

APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00041231C

15.2240
1.4000

34257
S/121/62/000/003/003/004
D040/D113

AUTHORS: Smirnov, F.F.; Ekhmann, E.E.; Kamenskaya, D.S.; Brakhman, L.A.;
Kiselev, Ye.N.; Serebrovskiy, V.B.

TITLE: The cutting properties of carbides of increased strength

PERIODICAL: Stanki i instrument, no. 3, 1962, 27-30

TEXT: Three new cutting alloys, developed by the Vsesoyuznyy nauchno-issledovatel'skiy institut tverdykh splavov (All-Union Scientific Research Institute of Hard Alloys) (VNIITs) for use when the cutting tools of standard carbides break down because of crumbling, are described. The composition of TT7K12 (TT7K12), T5K12B (T5K12V) and TT7K15 (TT7K15) alloys, selected from many compositions after tests at VNIITS, NIITAvtoprom, TsNIITMASH and Uralmashzavod, is as follows (Table 1): X

Card 1/4

The cutting properties

34257

S/121/62/000/003/003/004
D040/D113

Alloy	Specific weight, g/cm ³	Hardness, RA	Chemical composition (%)			
			Titanium carbide	Tantalum carbide	Tungsten carbide	Cobalt
TT7K12	13.1	87-88	4	3	81	12
TT7K15	12.7-13.0	87-88	4	3	78	15
T5K12V	12.9-13.0	87-88	5	-	83	12

Cutting tests were conducted at the Uralmashzavod, Kolomenskiy teplevozostroitel'nyy zavod (Kolomna Diesel Locomotive Plant), Stankostroitel'nyy zavod im. Ordzhonikidze (Machine Tool Plant im. Ordzhonikidze), ZIL, GAZ, Kramatorsk zavod tyazhelogo mashinostroyeniya (Kramatorsk Heavy Machinery Plant), and the Elektrostal'skiy zavod tyazhelogo mashinostroyeniya (Electrostal' Heavy Machinery Plant). The results show that TT7K15 has the highest strength but only half the durability of TT7K12, and the T5K12V has almost the same cutting properties as

Card 2/4

34257

3/121/62/000/003/003/004
1040/D113

The cutting properties

TTK12 but lower wear resistance. Generally, the strength of the new alloys in cutting is considerably higher than that of the standard carbides T5K10 (T5K10), BK8 (VK8) or BK11 (VK11) in cutting with deep cut. They proved good in heavy and intermittent cutting with relatively high cutting speed, and they are initially being used for planing large machine parts at the Kolomna Diesel Locomotive Plant, etc., as well as for planing large steel plates for dies at the Gor'kovskiy automobile zavod (Gor'kiy Automobile Plant). The following conclusions are clear: (1) TT7K12 and T5K12V alloys are ~~best~~ likely used as substitutes for high-speed steel in rough turning, turning on webs, planing, and other machining where the strength of standard carbides is not sufficient for dependable tool performance. In rough turning, they often can replace the T5K10 alloy, and the feed must then be raised 1.5 times or doubled, and the cutting speed slightly reduced. (2) The strength of TT7K12 and T5K12V is mostly sufficient; since the TT7K15 alloy is strong and has a lower wear resistance, it would be better to use it only in difficult cases. (3) The use of the new alloys will have negative results in cases where the T5K10 alloy works without too much crumbling of the cutting edge and where any considerable increase in the cut depth is technically impossible or

Carry 3/.

34257

5.1.1/6 /000/000/1.0/1.0
1.0/1.13

The cutting properties

unpublished. (4) The cutting capacity of the TT7K1 and TSK1.V alloys is much higher than that of high-speed steel when the cut is dry, but the difference abruptly diminishes or even disappears in operation with low feed (of about 0.1 mm/rev). More experiments are necessary before it can be seen whether the new alloys ought to be used for shallow cutting. (5) In future, it is necessary to investigate whether the new alloys should be used for cutoff tools and complex-shaped cutters, to determine the effect of cutting tips of the new alloys on tools for materials difficult to cut, and to achieve stable cutting properties for the TT7K1 and TSK1.V alloys. There are 3 tables and 3 figures.

Card 2/4

EYLEROM, S.A., inzh.; TABUNINA, M.A., red.izd-va; SHERSTNEVA, N.V.,
tekhn. red.

[Installation of exposed water pipes] Montazh naruzhnykh
truboprovodov. Izd.2., ispr. Moskva, Gos. izd-vo lit-ry
po stroit., arkhit. i stroit. materialam, 1961. 244 p.
(MIRA 15:2)

l. Akademiya stroitel'stva i arkhitektury SSSR. Institut or-
ganizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'-
stvu.

(Water pipes)

(Pipe fitting)

EYMONT, Hiacynta; SASSOWA, Janina

Fate of children with rheumatic fever treated at the 1st Pediatric Clinic of the Medical Academy in Wroclaw. Pediat. polska 33 no 6:
667-675 June 58.

l. z I Kliniki Pediatricznej A.M. we Wroclawiu Kierownik: prof.dr
med. H. Hirszfeldowa. Adres: Wroclaw, ul. Hoene Wronskiego 13 o,
I Klin. Pediatr. A.M.

(RHEUMATIC FEVER,
progn. & statist. (Pol))

EYMONT, M.

Electric power now and in the future. p. 177.
(PRZEGLAD KOLEJOWY ELEKTROTECHNICZNY. Vol. 8, no. 6, June 1956, Warszawa, Poland)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, no. 12, Dec. 1957.
Uncl.

EYMONT, M.

Maintenance of the traction network of Netherlands railroads. p. 247. (Przeglad Kolejowy Elektrotechniczny, Vol. 8, No. 8, Aug 1956, Warsaw, Poland)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 8, Aug 1957. Uncl.

SYMONT, M.

Development of the turbogas locomotive.

P. 220. (PRZEGŁAD KOLEJOWY MECHANICZNY) (Warszawa, Poland) Vol. 2, no. 7, July 1957

SO: Monthly Index of East European Accession (EEAI) LC Vol. 7, No. 5, 1958

EYMONT, M.

Technical alterations in the traction modes of European railroads. p. 102.

PRZEGŁAD KOLEJOWY ELEKTROTECHNICZNY. (Wydawnictwa Komunikacyjne) Warszawa,
Poland, Vol. 11, no. 4, Apr. 1959.

Monthly list of East European Accessions (EEAI) LC, Vol. 9, no. 1, Jan. 1960.

Uncl.

EYMONT, M.

The development and future of electric traction. p. 273.

PRZEGŁAD KOLEJOWY ELEKTROTECHNICZNY. (Wydawnictwa Komunikacyjne) Warszawa,
Poland, Vol. 11, no. 10, Oct. 1959.

Monthly list of East European Accessions (EEAI) LC, Vol. 9, no. 1, Jan. 1960.

Uncl.

EYMONT, Michal, mgr., inz.

Modern locomotives in the Soviet Union. To be contd. Przegl
kolej elekrotechn 13 no.7: 215-216 '61.

EYMONT, Michal, mgr inż.

Development of various electric traction systems.
Przegl kolej elektrotech 13 no.3:73-76 Mr '61.

EYMONT, Michał. mgr. ins.

Comparison of the economic and technical aspects of electric
and combustion traction. Przegl kolej elektrotech 10
[i.e. 15] no.12:349-351 D'63.

EYMONT, Michal, mgr inz.

For higher quality traction engines. Przegl kolej elektrotech 11
[i.e. 16] no.4:128, 3-4 of cover Ap '64.

EYMONT, Michal, mgr inz.

The electrified railway line Moscow--Baikal. Przegl kolej
elektrotech 11 no.7:223-224 Jl '64.

SHTAMM, Valentin Vol'demarovich, inzh., ~~EYMON~~, P.A., inzh.red.; KOCHETKOV, L.I., red.; GOLUBKOVA, L.A., tekhn.red.

[Technology of the construction of storage elevators] Tekhnologija stroitel'stva zagotovitel'nykh elevatorov. Pod red. P.A. Eimonta. Moskva, Izd-vo tekhn. i ekon. lit-ry po voprosam mukomol'nokrupianoj, kombikormovoj promyshli, i elevatorno-skladskogo khoziaistva, 1957. 162 p.

(MIRA 11:9)

(Grain elevators)